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ABSTRACT

An exchange coupled film is presented, which has an antiferromagnetic film being made of $N_{100-x}Mn_x$ (where N is at least one selected from the group consisting of Cu, Ru, Rh, Re, Pd, Pt, Ag, Au, Os, and Ir; and $24 \leq x \leq 75$) and having a tetragonal crystalline structure or being made of $Cr_{100-x}M_x$ (where M is at least one selected from the group consisting of elements of group 3b of periodic table, Cu, Ru, Rh, Re, Pt, Pd, Ag, Au, Os, Ir, Mn, Fe, Co, and V; and x is in the range of $0 < x < 30$) and a ferromagnetic film at least part of which is laminated with the antiferromagnetic film. With such an antiferromagnetic film, an exchange coupled film with a good exchange coupling characteristic and high corrosive resistance can be obtained.